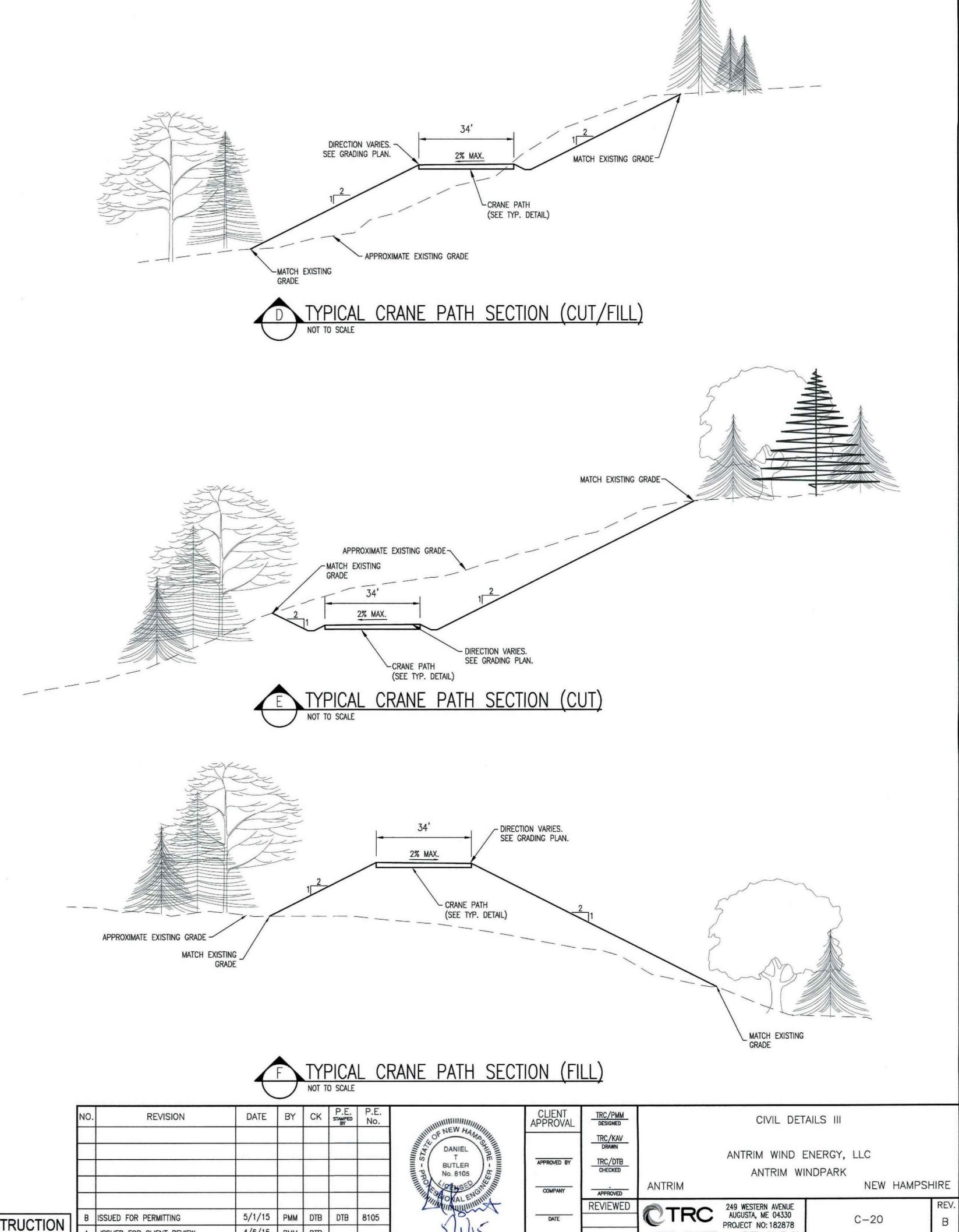




- 1. SEE DRAWING G-2 FOR PROJECT NOTES, LEGEND, AND ABBREVIATIONS.
- SEE DRAWING G-3 FOR OVERALL PROJECT MAP AND OVERALL PROJECT DRAWING INDEX.
- SEE DRAWING C-23 FOR CULVERT, BUFFER, TREATMENT SWALE, LEVEL SPREADER AND PLUNGE POOL SCHEDULES.



C-20

SCALE: AS NOTED DATE: 11-8-11

B ISSUED FOR PERMITTING NOT FOR CONSTRUCTION

4/6/15 PMM DTB

A ISSUED FOR CLIENT REVIEW

### MULCH AND SEEDING SPECIFICATIONS

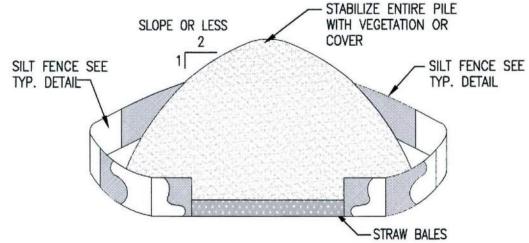
TEMPORARY	
WITHIN 100 FEET OF WETLANDS AND WATERBODIES	APPLY HAY AND/OR STRAW MULCH AT A MINIMUM OF 70 LBS/1000 S.F. OF EXPOSED SOIL.* MUST DONE WITHIN 48 HOURS OF INITIAL SOIL DISTURBANCE AND BEFORE FORECASTED STORM EVENTS, UNLI OTHERWISE SPECIFIED. IF FINAL RESTORATION IS NOT SCHEDULED WITHIN 30 DAYS, APPLY ANNUAL RYEGRASS AT 1LB/1000 S.F.
OTHER AREAS OF EXPOSED SOIL WITH SLOPES LESS THAN 8% AND SOILS STOCKPILES	IF NO ACTIVITY IS SCHEDULED WITHIN 30 DAYS, APPLY HAY AND/OR STRAW MULCH AT A MINIMUM OF LBS/1000 S.F. OF EXPOSED SOIL*, UNLESS SPECIFIED OTHERWISE. ECM** MAY BE USED. HAY/STRAMULCH MAY ALSO BE SUPPLEMENTED BY TEMPORARY SEEDING WITH ANNUAL RYEGRASS AT 1 LB/1000 S.F. FOR AREAS WHERE ADDITIONAL ACTIVITY IS NOT EXPECTED FOR SEVERAL MORE WEEKS. AN EROS CONTROL BARRIER MUST BE INSTALLED AROUND SOIL STOCKPILES THAT ARE EXPECTED TO REMAIN UNDISTURBED FOR MORE THAN 48 HOURS, OR PRIOR TO A STORM EVENT.
OTHER AREAS OF EXPOSED SOIL WITH SLOPES GREATER THAN 8%	IF FINAL RESTORATION IS NOT SCHEDULED WITHIN 30 DAYS OR PRIOR TO A STORM EVENT, APPLY HAY OR STRAW MULCH AT THE ABOVE RATES.* HAY OR STRAW MUST BE ANCHORED, UNLESS SPECIFIC SIT CONDITIONS DO NOT REQUIRE USE OF ANCHORING. ECM** OR MATTING MAY ALSO BE USED. TEMPORARY SEEDING WITH ANNUAL RYEGRASS AT 1LB/1000 S.F. IS ALSO RECOMMENDED FOR AREAS WHERE FINAL STABILIZATION IS NOT EXPECTED FOR SEVERAL MORE WEEKS.
TEMPORARY SEEDBED PREPARATION	APPLY LIMESTONE AND FERTILIZER (UPLANDS ONLY) ACCORDING TO SOIL TEST DATA. IF SOIL TEST IS NOT POSSIBLE, 10-0-10 FERTILIZER MAY BE APPLIED AT A RATE OF 600 LBS/ACRE AND LIMESTONE 3 TONS/ACRE. LOOSEN COMPACTED SOILS.
TEMPORARY SEEDING IN WETLANDS	IF REQUIRED, APPLY ANNUAL RYEGRASS AT A RATE OF 1 LB/1000 S.F. AND COVER WITH STRAW MULC DO NOT ADD LIME OR FERTILIZER TO WETLANDS.
FINAL RESTORATION	
PERMANENT MULCHING	ECM CAN BE USED AS A TEMPORARY OR PERMANENT SLOPE REINFORCEMENT AND LEFT TO RE-VEGETATION NEAR NATURAL CONDITIONS. IT IS NOT USED WHERE GRASS VEGETATION IS REQUIRED. RE-VEGETATION CAN BE ENHANCED BY SEEDING, WHICH IS ENCOURAGED IF USED AS A PERMANENT STABILIZATION MEASURE. PERMANENT MULCH MUST NOT BE USED IN AREAS OF CONCENTRATED WATER FLOWS AND EVIDENCE OF GROUNDWATER SEEPAGE ON SLOPES MAY REQUIRE THE ECM TO BE REPLACE WITH RIPRAP.
	<ul> <li>ON SLOPES THAT ARE 3H:1V OR LESS, ECM SHALL BE APPLIED AT A MINIMUM OF 2 INCHES THICK PLUS AN ADDITIONAL ½ INCH PER 20 FEET OF SLOPE UP TO 100 FEET (E.G. 3 INCHES THICK FOR 60 FEET OF SLOPE; 4 INCHES THICK FOR 100 FEET OF SLOPE).</li> <li>FOR SLOPES BETWEEN 3H:1V AND 2H:1V, ECM WILL BE APPLIED 4 INCHES THICK PLUS AN ADDITIONAL ½ INCH PER 20 FEET OF SLOPE UP TO 100 FEET (E.G. 5 INCHES THICK FOR 60 FE OF SLOPE; 6 INCHES THICK FOR 100 FEET OF SLOPE)</li> <li>ECM MUST BE SPREAD EVENLY AND MUST PROVIDE 100 PERCENT SOIL COVERAGE.</li> </ul>
PERMANENT RE-VEGETATION	PERMANENT SEEDING SHALL BE USED ON ALL EXPOSED SOIL THAT IS NOT PERMANENTLY STABILIZED EROCK, GRAVEL OR ECM. THE FOLLOWING PERMANENT SEEDING MIX SPECIFICATIONS ARE BETWEEN APROLOGICAL TO THE PERMANENT SEED MIX AFTER OCTOBER 3. PERMANENT SEEDING IS NOT REQUIRED DURING THE WINTER CONSTRUCTION SEASON, ALTHOUGH DORMANT SEEDING MAY BE PERFORMED (SEE WINTER CONSTRUCTION NOTES SHEET G-2).

\* MULCH APPLICATION RATES SHALL BE DOUBLED FOR WINTER CONSTRUCTION \*\*MINIMUM ECM THICKNESS IS 4 INCHES FOR WINTER CONSTRUCTION

	SOIL AMENDMENTS	SEED MIX VARIETIES	SEED RATE, LB/ACRE	MULCH, TONS/ACRE
UPLAND	APPLY GROUND LIMESTONE © 3 TONS/ACRE  APPLY 10-20-20 FERTILIZER © 800 LBS/ACRE	CREEPING RED FESCUE/(PENNLAWN, ENSYLA, WINTERGREEN)	20	1.5-2 (90-100 BALES)
		REDTOP/(ANY NATIVE SPECIES)	2	
		TALL FESCUE/(KENTUCKY 31)	20	
WETLAND	NONE	ANNUAL RYEGRASS, IF REQUIRED (ANY NATIVE SPECIES)	40	1.5-2 (90-100 BALES)

- INCREASE SEEDING RATES BY 10% WHEN HYDROSEEDING.
- ADD WINTER RYE TO THE UPLAND MIX AT A RATE OF 120 LB/ACRE AFTER OCTOBER 1.
- SEED OR MULCH WETLANDS ONLY WHERE REQUIRED BY THE EI OR 3PI, OR WHEN RESTORATION OCCURS AFTER OCTOBER 1. TYPICALLY, REPLACING THE ORIGINAL WETLAND SOIL ON THE
- RESTORED SURFACE WILL PROVIDE AN ADEQUATE SEED BED.
- DO NOT LIME OR FERTILIZE ANY AREAS WITHIN THE WATER BODY BUFFERS OR WETLANDS. MULCH WETLANDS WITH WEED-FREE STRAW ONLY.

THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER MAINTENANCE OF ALL RE-VEGETATED AREAS UNTIL THE PROJECT HAS BEEN COMPLETED AND ACCEPTED. FOLLOWING FINAL SEEDING THE CONTRACTOR WILL INSPECT RESTORED AREAS EVERY 30 DAYS UNTIL 90 PERCENT VEGETATIVE COVER HAS BEEN ESTABLISHED UNLESS ADJACENT, UNDISTURBED AREAS INDICATE THAT ACHIEVING THAT LEVEL OF VEGETATION IN THE AREA IS UNLIKELY. WHERE SEEDED AREAS HAVE BECOME ERODED OR DAMAGED BY CONSTRUCTION OPERATIONS, OR WHERE POOR GERMINATION IS OBSERVED, THE AFFECTED AREAS WILL BE PROMPTLY RE-GRADED. LIMED, FERTILIZED, AND RE-SEEDED AS NEEDED UNTIL THE ABOVE CRITERIA ARE MET. THE CONTRACTOR MAY BE REQUIRED TO RE-SEED DURING THE FOLLOWING SPRING IN ORDER TO ACHIEVE THE REQUIRED VEGETATIVE COVER.



**INSTALLATION NOTES:** 

1. AREA CHOSEN FOR STOCKPILING OPERATIONS

SHALL BE DRY AND STABLE.

2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2H:1V.

3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAW BALES, THEN STABILIZED WITH VEGETATION OR COVERED.

NOT TO SCALE

## GENERAL EROSION CONTROL NOTES

- 1. INSTALL EROSION CONTROL MEASURES IN ACCORDANCE WITH THE SPECIFICATIONS HEREIN. <u>SEE THE DES-APPROVED EROSION AND</u> SEDIMENTATION CONTROL PLAN NARRATIVE FOR ADDITIONAL DETAILS.
- 2. INSTALL ALL PERIMETER CONTROLS PRIOR TO COMMENCEMENT OF EARTH MOVING ACTIVITIES.
- 3. PRIOR TO THE INITIATION OF GRADING OPERATIONS, CONSTRUCT AND STABILIZE TEMPORARY DRAINAGE SWALES, CHECK DAMS, AND PLUNGE POOLS AS NEEDED TO EFFECTIVELY CONTROL EROSION AND PREVENT TRANSPORT OF SEDIMENT INTO REGULATED RESOURCES OR OFF-SITE. 4. DRAINAGE CHANNELS SHALL BE STABILIZED PRIOR TO RECEIVING RUNOFF.
- STABILIZE ROAD DITCHES WITH LOAM, SEED, EROSION CONTROL BLANKETS OR RIPRAP (DEPENDING ON SLOPE) WITHIN 24 HOURS OF FINAL GRADING. 5. INSTALL STONE CHECK DAMS WITHIN 24 HOURS OF ROUGH OR FINISH GRADING
- ANY SECTION OF DITCH, AS SHOWN ON THE PROJECT PLANS AND AT OTHER LOCATIONS AS NEEDED. 6. ALL ROADWAYS AND CUT/FILL SLOPES SHALL BE STABILIZED WITHIN 72 HOURS
- 7. ONCE A WEEK, OR AFTER RAINSTORMS PRODUCING AT LEAST 1/2 INCH OF RAINFALL, WHICHEVER IS MORE FREQUENT, INSPECT ALL AREAS WHERE TEMPORARY NON-STRUCTURAL MEASURES ARE USED. THE INSPECTION SCHEDULE WILL BE INCREASED TO DAILY DURING THE WINTER CONSTRUCTION
- 8. AFTER GRADING AND PRIOR TO FINAL STABILIZATION PROVIDE PERIODIC APPLICATION OF WATER OR CALCIUM CHLORIDE AS NEEDED TO CONTROL EXCESSIVE DUST.
- 9. REMOVE TEMPORARY EROSION CONTROL MEASURES ONCE AN AREA OF THE SITE IS PERMANENTLY STABILIZED.
- 10. MONITOR PUBLIC ROADS FOR SIGNS OF MUD TRACKING OR SPILLAGE OF SPOIL MATERIAL, CLEAN ROADWAYS AS NEEDED.

## FINAL RESTORATION

OF ACHIEVING FINISHED GRADE.

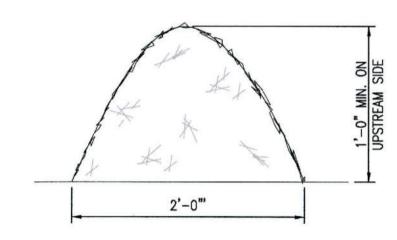
#### PERMANENT MULCHING

ECM CAN BE USED AS A TEMPORARY OR PERMANENT SLOPE REINFORCEMENT AND LEFT TO REVEGETATE TO NEAR NATURAL CONDITIONS. IT IS NOT USED WHERE GRASS VEGETATION IS REQUIRED. RE-VEGETATION CAN BE ENHANCED BY SEEDING, WHICH IS ENCOURAGED IF USED AS A PERMANENT STABILIZATION MEASURE. PERMANENT MULCH MUST NOT BE USED IN AREAS OF CONCENTRATED WATER FLOWS AND EVIDENCE OF GROUNDWATER SEEPAGE ON SLOPES MAY REQUIRE THE ECM TO BE REPLACED WITH RIPRAP.

- ON SLOPES THAT ARE 3H:1V OR LESS, ECM SHALL BE APPLIED AT A MINIMUM OF 2 INCHES THICK PLUS AN ADDITIONAL 1/2 INCH PER 20 FEET OF SLOPE UP TO 100 FEET (E.G., 3 INCHES THICK FOR 60 FEET OF SLOPE; 4 INCHES THICK FOR 100 FEET OF SLOPE).
- FOR SLOPES BETWEEN 3H:1V AND 2H:1V, ECM WILL BE APPLIED 4 INCHES THICK PLUS AN ADDITIONAL 1/2 INCH PER 20 FEET OF SLOPE UP TO 100 FEET (E.G., 5 INCHES THICK FOR 60 FEET OF SLOPE; 6 INCHES THICK FOR 100 FEET OF SLOPE).
- ECM MUST BE SPREAD EVENLY AND MUST PROVIDE 100 PERCENT SOIL COVERAGE.

#### PERMANENT RE-VEGETATION

PERMANENT SEEDING SHALL BE USED ON ALL EXPOSED SOIL THAT IS NOT PERMANENTLY STABILIZED BY ROCK, GRAVEL OR ECM. THE FOLLOWING PERMANENT SEEDING MIX SPECIFICATIONS BETWEEN APRIL 16 AND OCTOBER 31. HOWEVER WINTER RYE WILL BE ADDED TO THE PERMANENT SEED MIX AFTER OCTOBER 1 PERMANENT SEEDING IS NOT REQUIRED DURING THE WINTER CONSTRUCTION SEASON, ALTHOUGH DORMANT SEEDING MAY BE PERFORMED (SEE WINTER CONSTRUCTION NOTES).

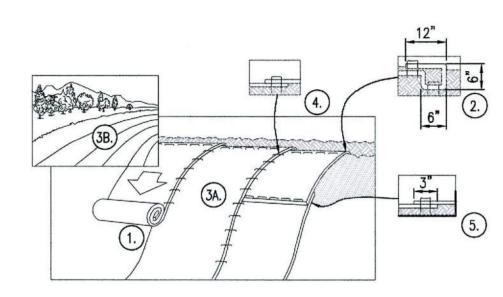


- 1. EROSION CONTROL MIX SHALL CONSIST OF SHREDDED BARK, STUMP GRINDINGS, COMPOSTED BARK, FRAGMENTED WOOD AND SOIL GENERATED FROM ONSITE CLEARING, STUMPING GRUBBING AND STUMP GRINDING OPERATIONS. THE MIX SHALL CONFORM TO THE
- FOLLOWING: A. EROSION CONTROL MIX SHOULD CONTAIN A WELL-GRADED MIXTURE OF PARTICLE SIZES, AND MAY CONTAIN ROCKS LESS THAN 4" IN DIAMETER. ECM MUST BE FREE OF REFUSE. PHYSICAL CONTAMINANTS, AND MATERIALS TOXIC TO PLANT GROWTH.
- B. ECM SHALL CONTAIN 25% 65% ORGANIC MATTER CONTENT (DRY
- WEIGHT BASIS). C. ORGANIC PORTION MUST BE FIBROUS AND ELONGATED.

ENGINEER.

- D. SCREEN SIZE: 3" 100% PASSING
- 1" 90% TO 100% PASSING 3/4" - 70% TO 100% PASSING
- 1/4" 30% TO 75% PASSING MIX SHALL NOT CONTAIN LARGE PORTIONS OF SILTS, CLAYS OR FINE SANDS.
- E. SOLUBLE SALT CONTENT SHALL BE < 4.0 mmhos/cm F. pH - 5.0 TO 8.0
- 2. INSTALL AND MAINTAIN EROSION CONTROL BERM AND OTHER EROSION CONTROL BARRIERS ALONG THE DOWNHILL LIMIT OF WORK, AS SHOWN ON THE DRAWINGS. BARRIER LOCATIONS MAY BE ADJUSTED IN THE FIELD BASED ON SITE CONDITIONS AS DETERMINED BY THE

NOT TO SCALE

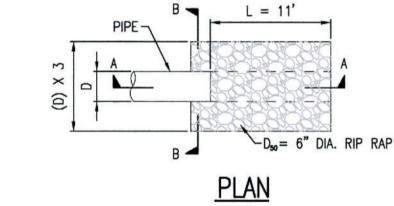


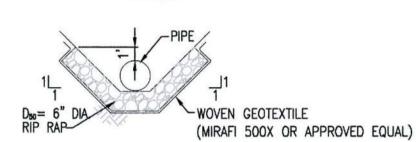
- 1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O- SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
- 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
- 3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- 4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
- 5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.

#### NOTE:

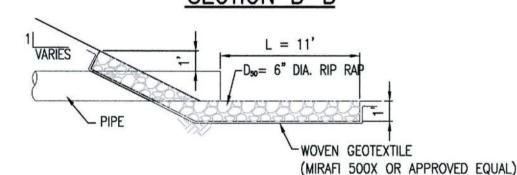
\*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

#### EROSION CONTROL BLANKET INSTALLATION NOT TO SCALE





# SECTION B-B



## SECTION A-A

### CULVERT INLET/OUTLET PROTECTION NOT TO SCALE

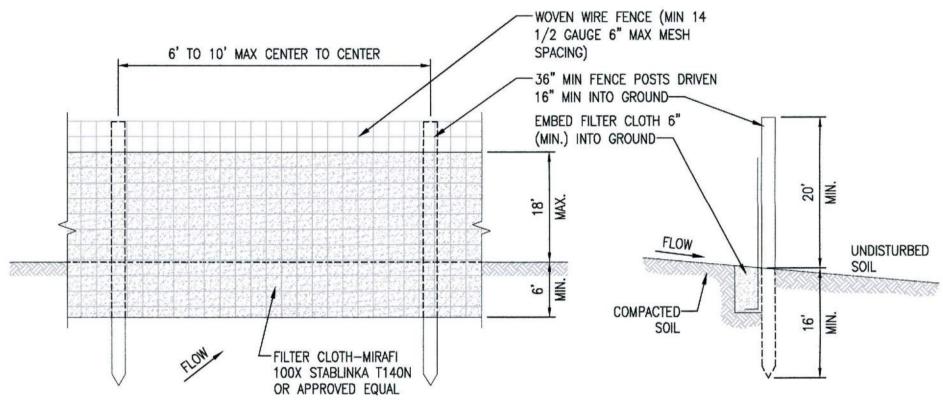
- 2. SEE DRAWING G-3 FOR OVERALL PROJECT MAP AND OVERALL PROJECT

#### "L" = THE DISTANCE SUCH THAT POINTS "A" - TOP OF SWALE AND "B" ARE OF EQUAL ELEVATION — 2" DIAMETER STONE 0.020 300 FLOW 0.030 200 0.040 200 CUTOFF TRENCH 0.050 200 18" WIDE x 6" DEEP-0.080 150 0.100 150 **PROFILE** 100 0.120 100 0.150 1'-6" FILTER FABRIC -TRENCH NON-WOVEN GEOTEXTILE (MIRAFI 140N OR APPROVED EQUAL)-SECTION A-A SECTION B-B

NOTE: INSTALL WHERE INDICATED ON SITE GRADING PLAN AND AS NEEDED BY SPACING REQUIREMENTS.

# CHECK DAM DETAILS

NOT TO SCALE



### **ELEVATION**

# 1. WOVEN WIRE FENCE TO BE FASTENED TO FENCE

- 2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24"
- 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6"

- AT TOP AND MIDSECTION.
- AND FOLDED.
- 4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN BUILD-UP REACHES 1/3 THE HEIGHT OF THE FENCE.

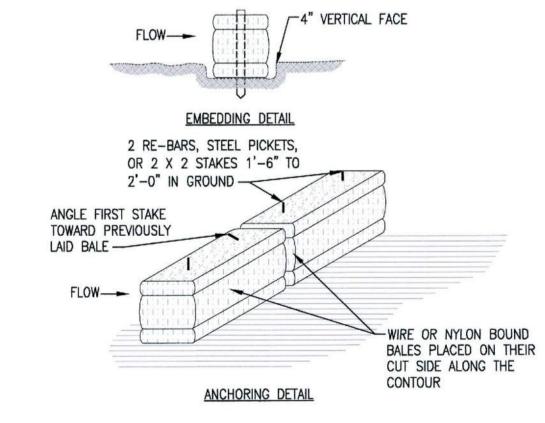
# **SECTION**

- POSTS WITH WIRE TIES OR STAPLES.

STEEL "T" OR "U" TYPE

- POSTS:
- OR 2" HARDWOOD. WOVEN WIRE, 14 1/3 GA FENCE: 6" MAX MESH OPENING.
  - FILTER CLOTH: FILTER X, MIRAFI 100X. STABLINKA T140N OR APPROVED EQUAL.
  - ENVIROFENCE OR PREFABRICATED UNIT: APPROVED EQUAL

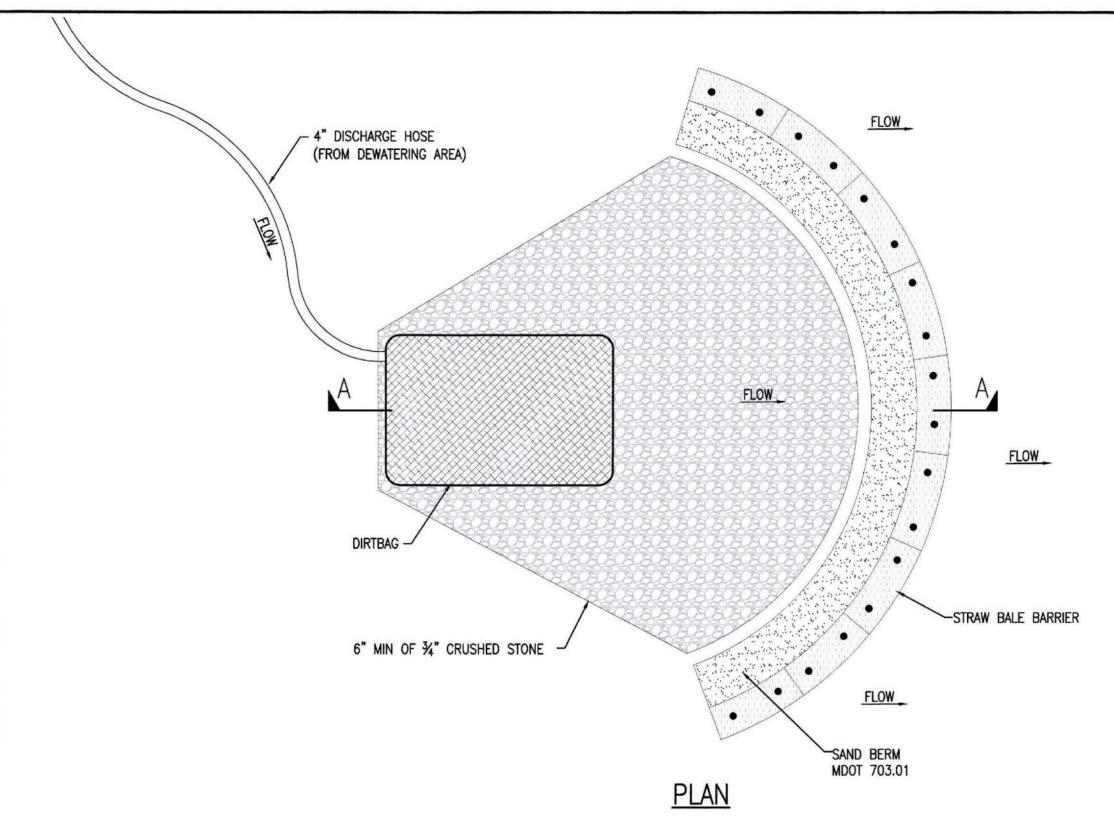
### SILT FENCE DETAIL NOT TO SCALE



# STRAW BALE BARRIER DETAIL

	NO.	REVISION	DATE	BY	СК	P.E. STAMPED BY	P.E. No.	minimum,	CLIENT APPROVAL	TRC/PMM_ DESIGNED		EROSION C	ONTROL	
								WILL OF NEW HAMPING		TRC/KAV DRAWN		NOTES & D	ETAILS I	
								DANIEL	APPROVED BY			ANTRIM WIND E	NERGY, LLC	
								BUTLER No. 8105	APPROVED BY	TRC/DTB CHECKED		ANTRIM WII	NDPARK	
								DENSED WITH	COMPANY	APPROVED	ANTRIM		NEW HAM	/PSHIRE
								THE STATE OF THE PARTY OF THE P		REVIEWED	<b>A</b>	249 WESTERN AVENUE		REV.
NOT FOR CONSTRUCTION	В	ISSUED FOR PERMITTING	5/1/15	РММ	DTB	DTB	8105	The state of the s	DATE			249 WESTERN AVENUE AUGUSTA, ME 04330	C-21	В
INOT FOR CONSTRUCTION	Α	ISSUED FOR CLIENT REVIEW	4/6/15	РММ	DTB			5/1/3			SCALE: AS NOTED	PROJECT NO: 182878 DATE: 11-8-11		

- SEE DRAWING G-2 FOR PROJECT NOTES, LEGEND, AND ABBREVIATIONS.
- DRAWING INDEX.
- 3. SEE DRAWING C-23 FOR CULVERT, BUFFER, TREATMENT SWALE, LEVEL SPREADER AND PLUNGE POOL SCHEDULES.



### √4" DISCHARGE HOSE - SAND BERM MDOT 703.01 10'-0" MIN -STRAW BALE -DIRTBAG SEDIMENT CONTROL DEVICE BY 6" MIN OF 3/4" CRUSHED STONE AFC ENVIRONMENTAL, OR APPROVED EQUAL MIRAFI 140N OR APPROVED EQUAL SECTION A-A

# TYPICAL DEWATERING OPERATION

NOTE: SEE PERMANENT SEED MIX

SPECIFICATION, SHEET C-21.

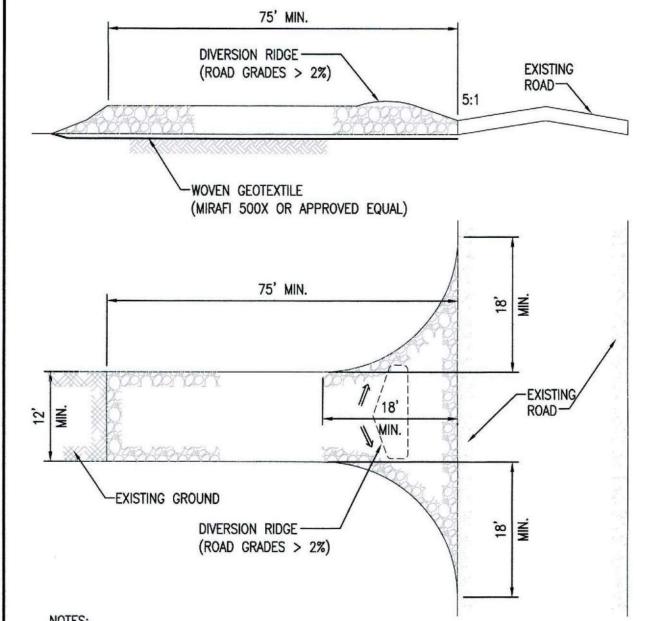
-4" LOAM, PERMANENT SEED, FERTILIZER & MULCH

TREATMENT SWALE

NOT TO SCALE

- 10-YEAR DESIGN STORM CAPACITY

- WATER QUALITY TREATMENT VOLUME



STONE SIZE - USE 2" STONE.

2. LENGTH - NOT LESS THAN 75 FEET. 3. THICKNESS - NOT LESS THAN SIX (6)

INCHES. 4. WIDTH - TWELVE (12) FOOT MIN. BUT

NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.

5. WOVEN GEOTEXTILE - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE.

6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.

7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. **DEWATERING NOTES** 

1. THE CONTRACTOR SHALL INSTALL, MAINTAIN, AND OPERATE ALL CHANNELS, SUMPS, AND ALL OTHER TEMPORARY DIVERSION AND PROTECTIVE WORKS NEEDED TO DIVERT STREAM FLOW AND OTHER SURFACE WATER THROUGH OR AROUND THE CONSTRUCTION SITE. CONTROL OF SURFACE WATER SHALL BE CONTINUOUS DURING THE PERIOD THAT DAMAGE TO CONSTRUCTION WORK COULD OCCUR.

2. OPEN EXCAVATIONS SHALL BE DEWATERED AND KEPT FREE OF STANDING WATER AND MUDDY CONDITIONS AS NECESSARY FOR THE PROPER EXECUTION OF THE WORK. THE CONTRACTOR SHALL FURNISH, INSTALL, OPERATE, AND MAINTAIN ALL DRAINS, SUMPS AND ALL OTHER EQUIPMENT REQUIRED TO PROPERLY DEWATER THE SITE.

3. INSTALL DIVERSION DITCHES OR BERMS IF NECESSARY TO MINIMIZE THE AMOUNT OF CLEAN STORMWATER RUNOFF ALLOWED INTO THE EXCAVATED AREA.

4. REMOVAL OF WATER FROM THE CONSTRUCTION SITE SHALL BE ACCOMPLISHED SO THAT EROSION AND THE TRANSPORTING OF SEDIMENT AND OTHER POLLUTANTS ARE MINIMIZED.

5. DISCHARGE DEWATERING EFFLUENT TO STABILIZED AREAS ONLY: DISCHARGE SHALL BE AS SHEET FLOW. 6. DEWATERING IN PERIODS OF INTENSE, HEAVY RAIN, WHEN THE INFILTRATIVE CAPACITY OF THE SOIL IS

EXCEEDED, SHALL BE AVOIDED. 7. FLOW TO THE SEDIMENT REMOVAL STRUCTURE MAY NOT EXCEED THE CAPACITY OF THE STRUCTURE TO

8. WHEN TEMPORARY WORKS ARE NO LONGER NEEDED, THE CONTRACTOR SHALL REMOVE AND RETURN THE AREA TO A CONDITION SIMILAR TO THAT WHICH EXISTED BEFORE CONSTRUCTION. AREAS WHERE TEMPORARY WORKS WERE LOCATED SHALL BE GRADED FOR SIGHTLY APPEARANCE WITH NO OBSTRUCTION TO NATURAL SURFACE WATER FLOWS OR THE PROPER FUNCTIONING AND ACCESS TO THE WORKS OF IMPROVEMENT INSTALLED. THE CONTRACTOR SHALL EXERCISE EXTREME CARE DURING THE REMOVAL STAGES TO MINIMIZE THE LOSS OF SOIL SEDIMENT AND DEBRIS THAT WAS TRAPPED DURING CONSTRUCTION.

#### **DEWATERING DETAIL NOTES:**

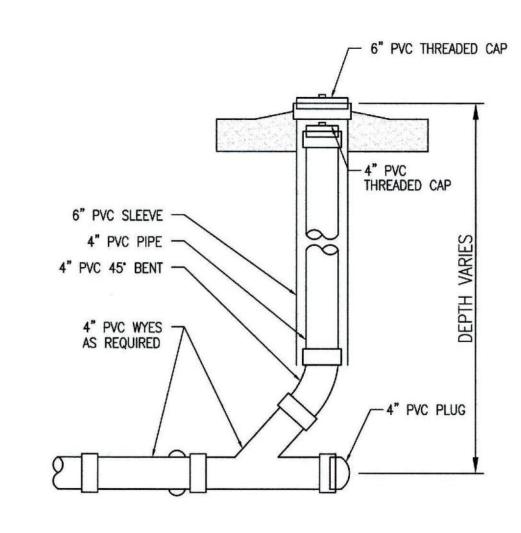
1. DIRT BAG MATERIAL BASED ON PARTICLE SIZE IN DIRTY WATER, I.E. FOR COARSE PARTICLES A WOVEN MATERIAL; FOR SILTS/CLAYS A NON-WOVEN MATERIAL.

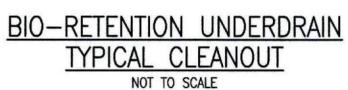
2. DO NOT OVER PRESSURIZE DIRT BAG OR USE BEYOND CAPACITY.

SETTLE AND FILTER FLOW OR THE VOLUME CAPACITY OF THE STRUCTURE.

3. DOWNGRADIENT RECEIVING AREA MUST BE WELL VEGETATED OR OTHERWISE STABLE FROM EROSION, E.G. FOREST FLOOR OR COARSE GRAVEL/STONE.

4. DISCHARGE NOT PERMITTED WITHIN 75' OF A STREAM, WETLAND OR OTHER REGULATED RESOURCES.





INV.=1114.72-BIO-RETENTION AREA DETAIL NOT TO SCALE SUBSTATION YARD NATIVE SHRUB AND -PERRENIAL PLANTINGS SOIL FILTER COARSE GRAVEL % PEA GRAVEL M

6" PERFORATED UNDERDRAIN

-INV.=1109.92

CLEANOUT

CONDITIONS.

LAYOUT.

1. SEE SITE PLAN FOR LOCATION AND

ORIENTATION OF BIO-RETENTION AREAS.

2. PLANTINGS SHALL BE NATIVE, NON-INVASIVE

WETLAND SPECIES TOLERANT OF SITE

3. PLANT VEGETATION IN A RANDOM, NATURAL

\_\_\_\_L<u>=80</u>′\_\_\_\_\_

6" PERFORATED

UNDERDRAIN (TYP) \/

CLEANOUT -

CLEANOUT -

INV.=1109.92 -

6" PERFORATED

BIO-RETENTION AREA 2

BASE ELEV.=1112.50

✓INV.=1109.77

- CLEANOUT

UNDERDRAIN (TYP)

-INV.=1109.00

INV.=1108.80 -

└INV.=1114.00

~INV.=1114.27

INV.=1108.95

CLEANOUT -

BIO-RETENTION AREA 1

\_ INV.=1114.92

CLEANOUT

BASE ELEV.=1117.50

BIO-RET	ENTION FILTER M	IEDIA	
		GRA	DATION OF MATERIAL
COMPONENT MATERIAL	PERCENT MIXTURE BY VOLUME	SIEVE NO.	PERCENT BY WEIGHT PASSING STANDARD SIEVE
	FILTER MEDIA OPTION A		
ASTM C-33 CONCRETE SAND	50 TO 55		
LOAMY SAND TOPSOIL, WITH FINES AS INDICATED	20 TO 30	200	15 TO 25
MODERATELY FINE SHREDDED BARK OR WOOD FIBER MULCH, WITH FINES AS INDICATED	20 TO 30	200	< 5
	FILTER MEDIA OPTION B		
MODERATELY FINE SHREDDED BARK OR WOOD FIBER MULCH, WITH FINES AS INDICATED	20 TO 30	200	< 5
	70 TO 80	10	85 TO 100
LOAMY COADCE CAND		20	70 TO 100
LOAMY COARSE SAND		60	15 TO 40
		200	8 TO 15

SECTION X-X

# NOTES:

- 1. SEE DRAWING G-2 FOR PROJECT NOTES, LEGEND, AND ABBREVIATIONS.
- SEE DRAWING G-3 FOR OVERALL PROJECT MAP AND OVERALL PROJECT
- SEE DRAWING C-23 FOR CULVERT, BUFFER, TREATMENT SWALE, LEVEL SPREADER AND PLUNGE POOL SCHEDULES.

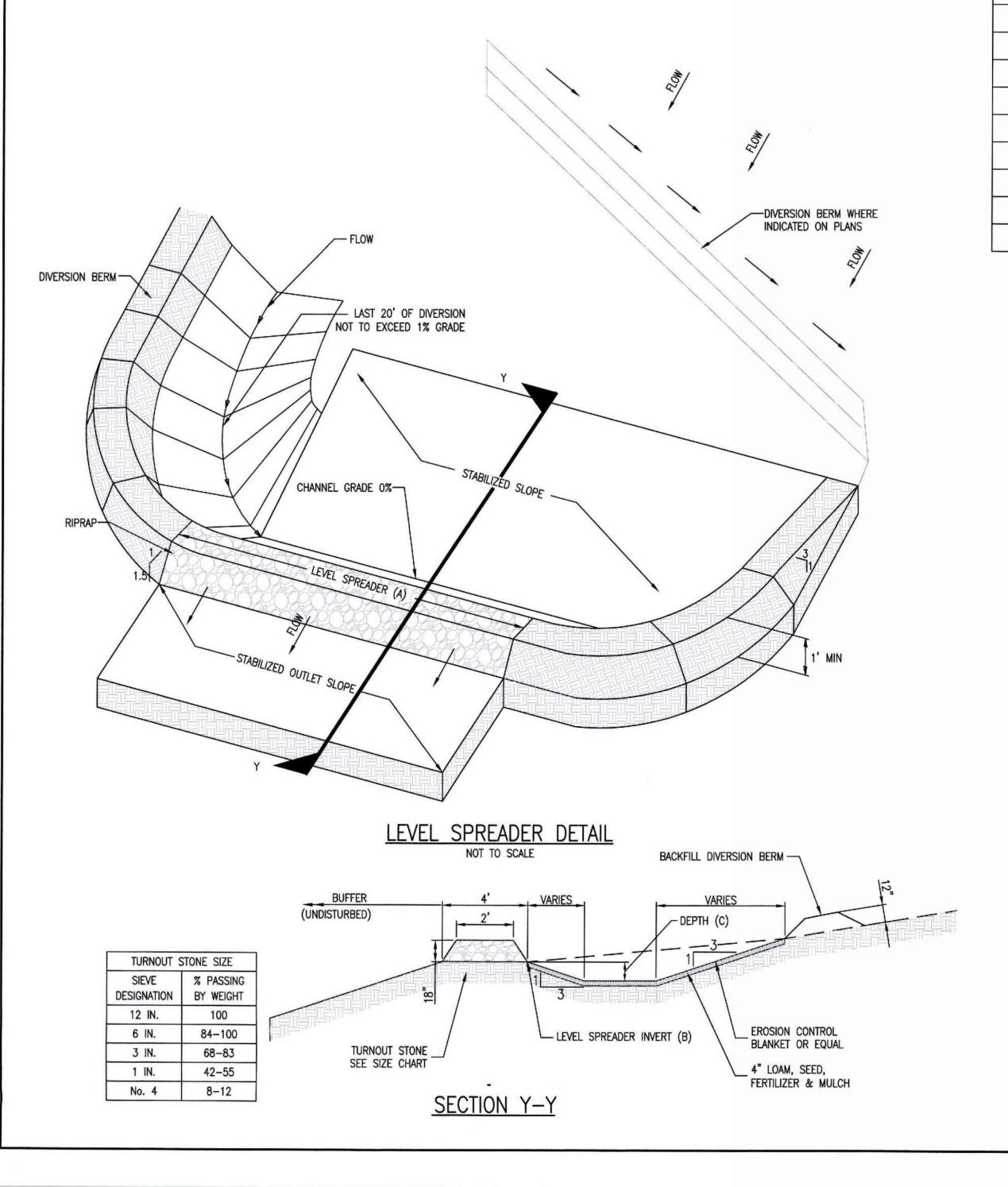
NOT FOR CONSTR

	NO.	REVISION	DATE	BY	СК	P.E. STAMPED BY	P.E. No.	CLI APPF	LIENT PROVAL	TRC/PMM_ DESIGNED		EROSION (	CONTROL	
								APPROPRIES NEW HAMS		TRC/KAV		NOTES & D	DETAILS II	
								DANIEL T APPRIL	PROVED BY			ANTRIM WIND	ENERGY, LLC	
				$\vdash$				BUTLER No. 8105		TRC/DTB CHECKED		ANTRIM WI		
								CENSE CONSTRUCTION CON	COMPANY	APPROVED	ANTRIM		NEW HAMPSHIF	₹E
	В	ISSUED FOR PERMITTING	5/1/15	PMM	DTB	DTB	8105	Thursday of the same of the sa	DATE	REVIEWED	<b>©TRC</b>	249 WESTERN AVENUE AUGUSTA, ME 04330	C-22	REV.
TRUCTION	A	ISSUED FOR CLIENT REVIEW	4/6/15	РММ	DTB		5.50	57115			SCALE: AS NOTED	PROJECT NO: 182878 DATE: 11-8-11	C-22	R

STABILIZED CONSTRUCTION ENTRANCE NOT TO SCALE

	CDDEAD	ED 0011	EDILLE
LEVEL	SPREAD	PER SCH	EDULE
ID #	LENGTH (A)	INVERT (B)	DEPTH (C)
LS-1	30'	1138.5	12"
LS-2	30'	1166.5	12"
LS-3	30'	1258.5	12"
LS-4	35'	1306.0	12"
LS-5	30'	1410.5	12"
LS-6	40'	1656.5	12"
LS-7	25'	1678.5	12"

MENT SV	WALE SC	HEDULE
LENGTH (FT)	BASE WIDTH (FT)	LONG. SLOPE (FT/FT)
150	3	0.0075
130	3	0.005
130	3	0.010
125	3	0.0075
120	3	0.005
120	4	0.0075
120	3	0.0075
135	3	0.0075
120	3	0.0075
135	3	0.0075
125	3	0.005
	LENGTH (FT)  150  130  130  125  120  120  135  120  135	150 3 130 3 130 3 130 3 125 3 120 4 120 4 120 3 135 3 120 3 135 3

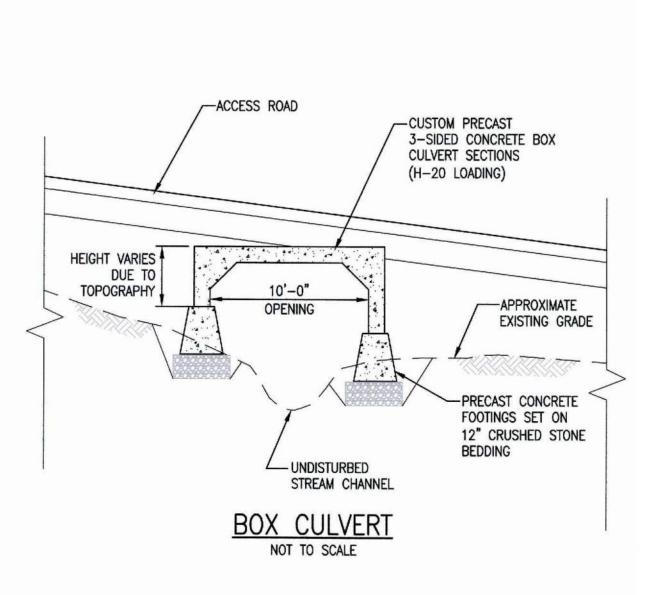


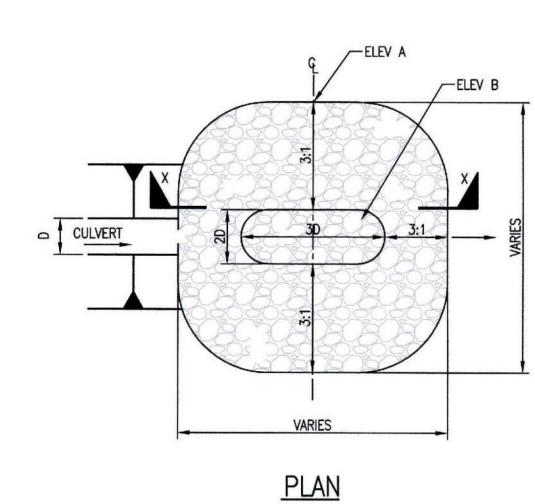
ID #	AVG. SLOPE	LENGTH (FT)	BUFFER TYPE
B-1	11%	115	DITCH TURN-OUT
B-2	10%	50	ROADWAY
B-3	10%	50	ROADWAY
B-4	15%	120	DITCH TURN-OUT
B-5	12%	75	ROADWAY
B-6	11%	185	DITCH TURN-OUT
B-7	22%	75	ROADWAY
B-8	16%	75	ROADWAY
B-9	9%	135	DITCH TURN-OUT
B-10	8%	75	ROADWAY
B-11	11%	135	DITCH TURN-OUT
B-12	15%	50	ROADWAY
VTG-5A	3%	120	SMALL AREA
/TG-5B	6%	110	SMALL AREA
B-13	25%	75	ROADWAY
B-14	12%	75	ROADWAY
B-15	15%	50	ROADWAY
B-16	25%	75	ROADWAY
B-17	25%	75	ROADWAY
WTG-8	12%	50	SMALL AREA
B-18	20%	50	ROADWAY
B-19	20%	50	ROADWAY
B-20	9%	50	ROADWAY
B-21	30%	75	ROADWAY
WTG-9	3%	120	SMALL AREA
B-22	3%	50	ROADWAY
NTG-2	5%	120	SMALL AREA

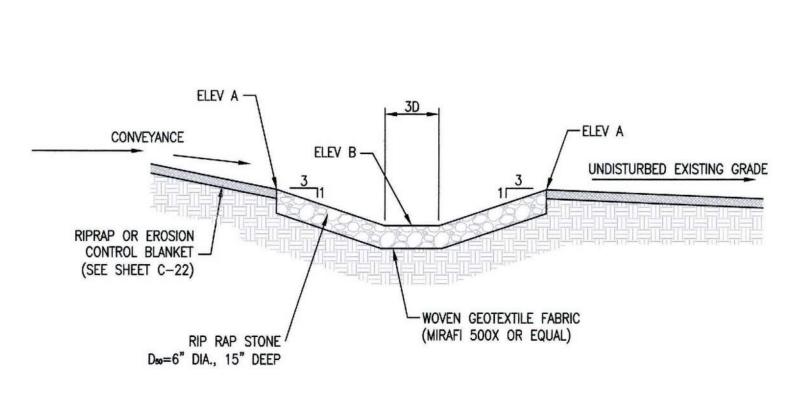
	CULVER	T SIZII	NG SCHE	EDULE	
CULVERT ID #	STATION	CULVERT DIAMETER	LENGTH (FT)		ERT
		(IN)		IN	OUT
SD-1	0+40	24	90	1042.00	1041.25
SD-2	2+30	15	28	1064.00	1063.25
SD-3	9+00	15	30	1122.00	1121.75
SD-3A	s/s	15	38	1120.00	1119.80
SD-4*	18+75	вох	35		
SD-5	24+60	18	38	1262.00	1260.00
SD-6	41+75	24	62	1422.00	1420.25
SD-7	45+00	12	60	1453.00	1451.50
SD-8	46+00	12	52	1465.00	1463.50
SD-9	47+00	12	48	1477.00	1475.60
SD-10	48+00	12	48	1489.00	1487.60
SD-11	49+00	12	50	1501.00	1499.60
SD-12	53+75	12	50	1557.50	1556.50
SD-13	54+50	12	48	1567.00	1565.50
SD-14	55+50	12	58	1579.00	1577.40
SD-15	56+50	12	53	1590.00	1589.50
SD-16	57+50	15	50	1602.00	1599.50
SD-17	63+50	15	53	1675.00	1670.00
SD-18	74+75	36	80	1638.00	1628.00
SD-19	86+00	15	64	1680.60	1680.00
SD-20	93+10	36	65	1701.00	1700.00
SD-21	128+00	15	43	1563.00	1562.00
SD-22	131+50	12	50	1605.00	1604.00
SD-23	132+50	12	46	1617.00	1616.00
SD-24	137+00	15	46	1671.00	1670.00
SD-25	3+10 (SPUR)	15	50	1679.00	1676.00
SD-26	152+91	36	70	1600.00	1597.00
*CD 4	- CONCRETE B	OV CHIVEDT	40'W V 0'U		

SD-4	-	CONCRETE	BOX	<b>CULVERT</b>	10'W	X	2'H	

ID #	INLET TYPE	INLET DIA. (IN)	ELEVATION (A)	ELEVATION (B)
P-1	DITCH	24	1117.00	1116.00
P-2	DITCH	24	1353.00	1352.00
P-3	DITCH	24	1417.00	1416.00
P-4	DITCH	36	1410.00	1408.00
P-5	CULVERT	12	1451.00	1450.00
P-6	CULVERT	12	1463.00	1762.00
P-7	CULVERT	12	1475.00	1474.00
P-8	CULVERT	12	1487.00	1486.00
P-9	CULVERT	12	1499.00	1498.00
P-10	CULVERT	12	1556.00	1555.00
P-11	CULVERT	12	1565.00	1564.00
P-12	CULVERT	12	1577.00	1576.00
P-13	CULVERT	12	1589.00	1588.00
P-14	CULVERT	15	1599.00	1597.75
P-15	CULVERT	15	1668.00	1666.75
P-16	CULVERT	36	1627.00	1625.00
P-17	DITCH	24	1677.75	1676.75
P-18	DITCH	24	1681.50	1680.50
P-19	CULVERT	15	1679.50	1676.75
P-20	CULVERT	36	1700.00	1698.75
P-21	DITCH	24	1714.00	1713.00
P-22	DITCH	24	1505.00	1504.00
P-23	DITCH	24	1471.00	1469.00
P-24	CULVERT	15	1560.00	1558.75
P-25	CULVERT	12	1603.00	1602.00
P-26	CULVERT	12	1612.00	1611.00
P-27	CULVERT	15	1669.00	1667.75
P-28	CULVERT	15	1675.00	1673.75
P-29	CULVERT	12	1706.00	1705.00
P-30	CULVERT	12	1707.00	1706.00







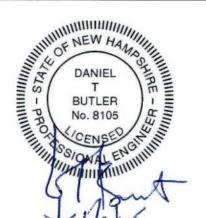
SECTION X-X

PLUNGE POOL NOT TO SCALE

NOTES:

- SEE DRAWING G-2 FOR PROJECT NOTES, LEGEND, AND ABBREVIATIONS.
- SEE DRAWING G-3 FOR OVERALL PROJECT MAP AND OVERALL PROJECT DRAWING INDEX.

	NO.	REVISION	DATE	BY	СК	P.E. STAMPED BY	P.E. No.
FOR PROJECT NOTES, LEGEND, AND FOR OVERALL PROJECT MAP AND OVERALL INDEX.							
NOT FOR CONSTRUCTION	В	ISSUED FOR PERMITTING ISSUED FOR CLIENT REVIEW	5/1/15	PMM PMM	DTB DTB	DTB	8105



CLIENT APPROVAL COMPANY REVIEWED

**ANTRIM** 

CULVERT / BUFFER / TREATMENT SWALE / LEVEL SPREADER / PLUNGE POOL SCHEDULES ANTRIM WIND ENERGY, LLC ANTRIM WINDPARK NEW HAMPSHIRE

249 WESTERN AVENUE AUGUSTA, ME 04330 PROJECT NO: 182878 SCALE: AS NOTED DATE: 11-8-11

C - 23